

DEPARTMENT of ENVIRONMENTAL SERVICES  
Water Supply & Pollution Control Division - Biology Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: NORCROSS POND	Lake Area (ha): 2.83
Town: LINCOLN	Maximum depth (m): 2.9
County: Grafton	Mean depth (m): 1.1
River Basin: Merrimack	Volume (m <sup>3</sup> ): 32000
Latitude: 44°06'58" N	Relative depth: 1.5
Longitude: 71°24'26" W	Shore configuration: 1.51
Elevation (ft): 3120	Areal water load (m/yr): 19.94
Shore length (m): 900	Flushing rate (yr <sup>-1</sup> ): 17.60
Watershed area (ha): 55.6	P retention coeff.: 0.48
% watershed ponded: 0.0	Lake type: natural

BIOLOGICAL:

		31 July 1995
DOM. PHYTOPLANKTON (% TOTAL)	#1	DINOBRYON 95%
	#2	
	#3	
PHYTOPLANKTON ABUNDANCE (units/mL)		
CHLOROPHYLL-A (µg/L)		2.18
DOM. ZOOPLANKTON (% TOTAL)	#1	CALANOID COPEPOD 49%
	#2	KERATELLA 29%
	#3	NAUPLIUS LARVA 14%
ROTIFERS/LITER		65
MICROCRUSTACEA/LITER		134
ZOOPLANKTON ABUNDANCE (#/L)		199
VASCULAR PLANT ABUNDANCE		Common
SECCHI DISK TRANSPARENCY (m)		2.2
BOTTOM DISSOLVED OXYGEN (mg/L)		8.8
BACTERIA (E. coli, #/100 ml)	#1	< 1
	#2	
	#3	

SUMMER THERMAL STRATIFICATION:

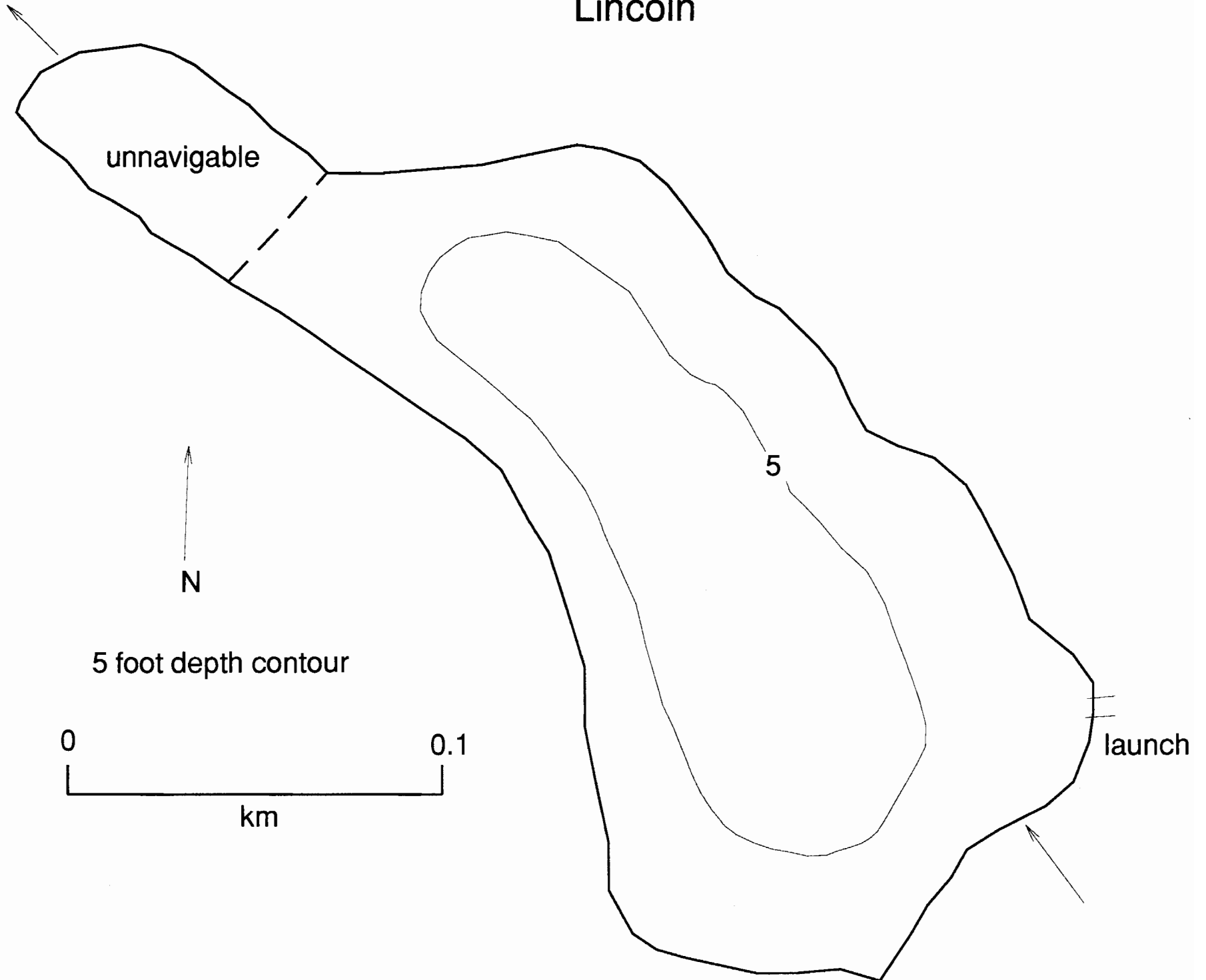
weakly stratified

Depth of thermocline (m): None  
Hypolimnion volume (m<sup>3</sup>) : None  
Anoxic volume (m<sup>3</sup>) : None

<b>CHEMICAL:</b>		Lake: NORCROSS POND Town: LINCOLN			
		31 July 1995			
DEPTH (m)			1.0		
pH (units)			5.2		
A.N.C. (Alkalinity)			0.8		
NITRATE NITROGEN			< 0.10		
TOTAL KJELDAHL NITROGEN			0.36		
TOTAL PHOSPHORUS			0.016		
CONDUCTIVITY ( $\mu$ mhos/cm)			16.3		
APPARENT COLOR (cpu)			65		
MAGNESIUM			0.11		
CALCIUM			< 1.0		
SODIUM			< 1.0		
POTASSIUM			< 0.40		
CHLORIDE			< 2		
SULFATE			3		
TN : TP			23		
CALCITE SATURATION INDEX					
All results in mg/L unless indicated otherwise					
<b><u>TROPHIC CLASSIFICATION: 1995</u></b>					
	D.O.	S.D.	PLANT	CHL	TOTAL
	**	3	3	0	6
					Meso.
<b><u>COMMENTS:</u></b>					
<ol style="list-style-type: none"> <li>1. This is a high elevation, remote, acid pond located on the same plateau as Nancy Pond, but is in the Pemigewasset watershed and not the Saco. It is located within the Pemigewasset Wilderness Area of the White Mountain National Forest.</li> <li>2. The pond was not surveyed in the winter due to the difficult access.</li> </ol>					

# Norcross Pond

## Lincoln



[illegible]

Lincoln

un navigable

Y

E

0 0.1 km

N

[illegible]